





## \* Small-sized of Quartz Crystals and Crystal Oscillators

As reducing environmental impact issues more and more attention, the production of industrial and consumer electronics tends to minimize the size and reduce power consumption of their devices. This trend brings increasing demands for such miniature electronic components with low power consumption.




Ansen Quartz has recently devoted to development of smaller-sized crystal and oscillators: ASX1F, ASX0F, ASO2 and ASO1 to fulfill the contemporary trend and miniaturized demand on widespread application usage. Our products are widely utilized not only in consumer electronics and telecommunication, such as mobile phone and tablet but also in industrial sectors, including measuring instruments, switches and power supply.

All of Ansen's products are 100% passed through electricity test before dispatch. Besides ISO9001 and ISO14001, Ansen is IECQ/QC08000 certified and all products also comply with RoHS & REACH regulations. Moreover, auto-grade SMD crystal products are available and AECQ compliant.

### \* Quartz Crystal

Part number	ASX0F	ASX1F	ASX2F	ASX3F
Quartz Crystal				
Package	1.6x1.2mm	2.0x1.6mm	2.5x2.0mm	3.2x2.5mm
Frequency Range	24~48MHz	16~50MHz	12~50MHz	10~54MHz
Tolerance Range	±10 ~ ±50			
Stability Range	±15 ~ ±100			
Operating Temperature	-40°C ~ ±125°C			

### \* Crystal Oscillator

Part number	ASO1	ASO2	ASO3
Crystal Oscillator			
Package	2.0x1.6mm	2.5x2.0mm	3.2x2.5mm
Frequency	2~50MHz		1~54MHz
Voltage	1.8V & 2.5V & 3.3V		
Stability Range	±25~±100		±20~±100
Operating Temperature	-40°C ~ ±125°C		
Output	CMOS		